

SEQ. ID 3-1 SEQ. ID 4-1	GAAAAGGTGGACAAGTCCTATTTCAAGAGAAGATGACTTTTAACAGTTTTGAAGGATCT 60 M T F N S F E G S 9	
61 10	AAAACTTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTGTAGAAGAGTTTAATAGA 120 K T C V P A D I N K E E E F V E E F N R 29	
121 30	TTAAAAACTTTTGCTAATTTTCCAAGTGGTAGTCCTGTTTCAGCATCAACACTGGCACGA 180 L K T F A N F P S G S P V S A S T L A R 49	
181 50	GCAGGGTTTCTTTATACTGGTGAAGGAGATACCGTGCGGTGCTTTAGTTGTCATGCAGCT 240 A G F L Y T G E G D T V R C F S C H A A 69	
241 70	GTAGATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCCAAAT 300 V D R W Q Y G D S A V G R H R K V S P N 89	
301 90	TGCAGATTTATCAACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATTCTGGT 360 C R F I N G F Y L E N S A T Q S T N S G 109	
361 110	ATCCAGAATGGTCAGTACAAAGTTGAAAACTATCTGGGAAGCAGAGATCATTTTGCCTTA 420 I Q N G Q Y K V E N Y L G S R D H F A L 129	
421 130	GACAGGCCATCTGAGACACATGCAGACTATCTTTTGAGAACTGGGCAGGTTGTAGATATA 480 D R P S E T H A D Y L L R T G Q V V D I 149	
481 150	TCAGACACCATATACCCGAGGAACCCTGCCATGTATaGTGAAGAAGCTAGATTAAAGTCC 540 S D T I Y P R N P A M Y S E E A R L K S 169	
541 170	TTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGCTGGACTC 600 F Q N W P D Y A H L T P R E L A S A G L 189 TACTACACAGGTATTGGTGACCAAGTGCAGTGCTTTTGTTGTGGTGGAAAACTGAAAAAT 660	
601 190	TACTACACAGGTATTGGTGACCAAGTGCAGTGCTTTTGTTGTGGTGGAAAACTGAAAAAT 660 Y Y T G I G D Q V Q C F C C G G K L K N 209 TGGGAACCTTGTGATCGTGCCTGGTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTT 720	
661 210 721	WEPCDRAWSEHRRHFPNCFF229 GTTTTGGGCCGGAATCTTAATATTCGAAGTGAATCTGATGCTGTGAGTTCTGATAGGAAT 780	
230 781		
250 841	FPNSTNLPRNPSMADYEARI 269	
270 901	F T F G T W I Y S V N K E Q L A R A G F 289 1.2 TATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCACTGTGGAGGAGGGCTAACTGAT 960	
290 961	Y A L G E G D K V K C F H C G G G L T D 309  TGGAAGCCCAGTGAAGACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTGCAAATAT 1020	0
310	W K P S E D P W E Q H A K W Y P G^C K Y 329  1 CTGTTAGAACAGAAGGGACAAGAATATATAAACAATATTCATTTAACTCATTCACTTGAG 1080	0
330	LLEQKGQEYINNIHLTHSLE 349	

Fig. 1

#### 2/33 350 E C L V R T T E K T P S L T R R I D D T 369 1141 ATCTTCCAAAATCCTATGGTACAAGAAGCTATACGAATGGGGTTCAGTTTCAAGGACATT 1200 370 I F Q N P M V Q E A I R M G F S F K D I 1201 AAGAAATAATGGAGGAAAAATTCAGATATCTGGGAGCAACTATAAATCACTTGAGGTT 1260 390 K K I M E E K I Q I S G S N Y K S L E 1261 CTGGTTGCAGATCTAGTGAATGCTCAGAAAGACAGTATGCAAGATGAGTCAAGTCAAGTCAGACT 1320 410 L V A D L V N A Q K D S M Q D E S S Q T 1321 TCATTACAGAAAGAGATTAGTACTGAAGAGCAGCTAAGGCGCCTGCAAGAGGAGAAGCTT 1380 430 S L Q K E I S T E E Q L R R L Q E E K 1381 TGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTTCCTTGTGGACATCTAGTC 1440 450 C K I C M D R N I A I V F V P C G H L V 1441 ACTTGTAAACAATGTGCTGAAGCAGTTGACAAGTGTCCCATGTGCTACACAGTCATTACT 1500 470 T C K Q C A E A V D K C P M C Y T V I T 489 1501 TTCAAGCAAAAATTTTTATGTCTTAATCTAACTCTATAGTAGGCATGTTATGTTGTTCT 1560 490 F K Q K I F M S \* 1561 TATTACCCTGATTGAATGTGTGATGTGAACTGACTTTAAGTAATCAGGATTGAATTCCAT 1620 1621 TAGCATTTGCTACCAAGTAGGAAAAAAATGTACATGGCAGTGTTTTAGTTGGCAATATA 1680 1741 TTTAATTGAAACCATAGACTAAGAATAAGAAGCATCATACTATAACTGAACACAATGTGT 1800 1801 ATTCATAGTATACTGATTTAATTTCTAAGTGTAAGTGAATTAATCATCTGGATTTTTAT 1860 1861 TCTTTTCAGATAGGCTTAACAAATGGAGCTTTCTGTATATAAATGTGGAGATTAGAGTTA 1920 1921 ATCTCCCCAATCACATAATTTGTTTTGTGTGAAAAAGGAATAAATTGTTCCATGCTGGTG 1980 2041 TTTAAAGTTATAAACACGTACTTGTGCGAATTATTTTTTTAAAGTGATTTGCCATTTTTG 2100 2101 AAAGCGTATTTAATGATAGAATACTATCGAGCCAACATGTACTGACATGGAAAGATGTCA 2160 2161 AAGATATGTTAAGTGTAAAATGCAAGTGGCAAAACACTATGTATAGTCTGAGCCAGATCA 2220 2221 AAGTATGTATGTTTTAATATGCATAGAACAAAAGATTTGGAAAGATATACACCAAACTG 2280 2401 GTATTACTTTTGTAATCAGAATTTTTAGAAAGTATTTTGCTGATTTAAAGGCTTAGGCAT 2460 2461 GTTCAAACGCCTGCAAAACTACTTATCACTCAGCTTTAGTTTTTCTAATCCAAGAAGGCA 2520 2521 GGGCAGTTAACCTTTTTGGTGCCAATGTGAAATGTAAATGATTTTATGTTTTTCCTGCTT 2580 2581 TGTGGATGAAAAATATTTCTGAGTGGTAGTTTTTTGACAGGTAGACCATGTCTTATCTTG 2640 2641 TTTCAAAATAAGTATTTCTGATTTTGTAAAATGAAATATAAAATATGTCTCAGATCTTCC 2700

Fig. 1 (cont.)



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3061 AATATTGGCAAGAAAAGAATAGTTGTTTAAATATTTTTTAAAAAACACTTGAATAAG 3120
3121 AATCAGTAGGGTATAAACTAGAAGTTTAAAAAATGCCTCATAGAACGTCCAGGGTTTACAT
                                                     3180
3181 TACAAGATTCTCACAACAAACCCATTGTAGAGGTGAGTAAGGCATGTTACTACAGAGGAA 3240
3301 TTGTTATGTTCTCCTAACTTCTGTTGATTACTACTTTAAGTGATATTCATTTAAAACATT 3360
3421 CTGGAGTGCAGTGGAGTGATCTCTGCTCACTGCAACCTCCGCCTTCTGGGTTCAAGCGAT 3480
3601 TCCTGACCTCAAGAGATCCACTCGCCTTGCCCTCCCAAAGTGCTGGGATTACAGGCTTGA
3661 GCCACCACGCCCGGCTAAAACATTGCAAATTTAAATGAGAGTTTTAAAAATTAAATAATG 3720
3721 ACTGCCCTGTTTCTGTTTTAGTATGTAAATCCTCAGTTCTTCACCTTTGCACTGTCTGCC
3781 ACTTAGTTTGGTTATATAGTCATTAACTTGAATTTGGTCTGTATAGTCTAGACTTTAAAT 3840
3841 TTAAAGTTTTCTACAAGGGGAGAAAAGTGTTAAAATTTTTAAAATATGTTTTCCAGGACA 3900
3901 CTTCACTTCCAAGTCAGGTAGGTAGTTCAATCTAGTTGTTAGCCAAGGACTCAAGGACTG 3960
3961 AATTGTTTTAACATAAGGCTTTTCCTGTTCTGGGAGCCGCACTTCATTAAAATTCTTCTA 4020
4021 AAACTTGTATGTTTAGAGTTAAGCAAGACTTTTTTTCTTCCTCTCCATGAGTTGTGAAAT 4080
4081 TTAATGCACAACGCTGATGTGGCTAACAAGTTTATTTTAAGAATTGTTTAGAAATGCTGT 4140
4141 TGCTTCAGGTTCTTAAAATCACTCAGCACTCCAACTTCTAATCAAATTTTTGGAGACTTA 4200
4201 ACAGCATTTGTCTGTGTTTGAACTATAAAAAGCACCGGATCTTTTCCATCTAATTCCGCA 4260
4261 AAAATTGATCATTTGCAAAGTCAAAACTATAGCCATATCCAAATCTTTTCCCCCCTCCCAA 4320
4321 GAGTTCTCAGTGTCTACATGTAGACTATTCCTTTTCTGTATAAAGTTCACTCTAGGATTT 4380
4381 CAAGTCACCACTTATTTTACATTTTAGTCATGCAAAGATTCAAGTAGTTTTTGCAATAAGT 4440
4441 ACTTATCTTTATTTGTAATAATTTAGTCTGCTGATCAAAAGCATTGTCTTAATTTTTGAG 4500
4561 TTTCCTGCTACATTTGGTTTTTTCCCCTGTCCCTTTGATTACGGGCTAAGGTAGGGTAAG 4620
4621 AXXGGGTGTAGTGAGTGTATATAATGTGATTTGGCCCTGTGTATTATGATATTTTGTTAT
                                                      4680
4681 TTTTGTTGTTATATTATTTACATTTCAGTAGTTGTTTTTTGTGTTTTCCATTTTAGGGGAT
                                                      4740
4741 AAAATTTGTATTTTGAACTATGAATGGAGACTACCGCCCCAGCATTAGTTTCACATGATA 4800
4801 TACCCTTTAAACCCGAATCATTGTTTTATTTCCTGATTACACAGGTGTTGAATGGGGAAA 4860
4921 ATGAAATAAAATGGGGCTCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGG 4980
4981 CTGAGGCAGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAAC 5040
5101 GCTACTCGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAGGCAGAGCTTGCAGTGA 5160
5161 GCCGAGATCTCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTCAAAAAA 5220
5221 AAAAAAAAAAA 5232
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Fig. 1 (cont.)

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SEQ. ID 5-1 TTGCTCTGTCACCCAGTTTGGAGTGCAGTTATGCAGTCTCACACTGCAAGCTCTGCCTCA
     121 ACCATGTCTGGCTAATTTTTGAGTTTCTTTGTAGAGATGGTGTTTTGCCAAGTCACCCAG 180
    181 TTTGAGGCTGGTCTCAAACACCTGGGCTCAAGCAATCCATCTACCTCAGCCTCCCAAAGT 240
    241 GCTGGGATTACAGGAGTGAGCCATGGCATGAGGCCTTGTGGGGTGTCTCTTTTAAATGAA 300
    421 TGATGGACACATGTGTTACATTGATTTCACTTTCTCATAATTCTGCTGTAAGAAAAACAA 480
    481 TAGTGCCAGTTCAATGACAAATAGCAACAGTCTGTTATTGCTAGACTGTTACTGTTAGTG 540
    541 GAGACTACCAGAACAGTCAGTCCCAGTGTCAGGGAATCAAAGAGAACATGTTCCCTCTCT 600
    601 AAAGGGCACAGCTGCTGCTCAGCTTTAGCTGATTGCTGCCCTGCAGGACTATAGGCCCAG 660
    661 TGTTGCTAGATCTTTTGATGTTTCAAGAGAAGCTTGGAATCTAGAATGTGATGGGAAGTC 720
    721 TCTTACATTTAAACATGTTGGCAATTAATGGTAAGATTTAAAAATACTGTGGTCCAAGAA 780
    781 AAAAATGGATTTGGAAACTGGATTAAATTCAAATGAGGCATGCAGATTAATCTACAGCAT
    841 GGTACAATGTGAATTTTCTGGTTTCTTTAATTGCACTGTAATTAGGTAAGATGTTAGCTT
    901 TGGGGAAGCTAAGTGCAGAGTATGCAGAAACTATTATTTTTTGTAAGTTTTCTCTAAGTAT 960
    961 AAATAAATTTCAAAATAAAAATAAAAACTTAGTAAAGAACTATAATGCAATTCTATGTAA 1020
   1021 GCCAAACATAATATGTCTTCCAGTTTGAAACCTCTGGGTTTTATTTTATTTTATTTTATT
    1081 TTTGAGACAGAGTCTTGCTGTGTCACCCAGGCTGGAGTGTAGTGGCACTATTTCGGCCCA 1140
    1141 CTGCAACCTCCACCTCCCAGGCTCAAATGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGG 1200
    1201 GATTACAGGCGCGTACCACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTT
                                                            1260
    1261 TCACCATTTTGGCCAGGCTGGTTTTGAACTCCTGACCTCAAGTGATCCACTTGTCTTGGC
                                                            1320
    1321 CTCCCAAAATGCTGGGATTACAGGCGTGAGCCACTGCACCAGGCAGAGGCCTCTGTTTTT
                                                            1380
    1381 TATCTCTTTTTGGCCTCTACAGTGCCTAGTAAAGCACCTGATACATGGTAAACGATCAGT 1440
    1561 GAAAACGACTTCTTCTAGATTTTTTTTCAGTTTCTTCTATAAATCAAAACATCTCAAAA 1620
    1621 TGGAGACCTAAAATCCTTAAAGGGACTTAGTCTAATCTCGGGAGGTAGTTTTGTGCATGG 1680
    1681 GTAAACAAATTAAGTATTAACTGGTGTTTTACTATCCAAAGAATGCTAATTTTATAAACA 1740
    1741 TGATCGAGTTATATAAGGTATACCATAATGAGTTTGATTTTGAATTTGATTTGTGGAAAT 1800
    1801 AAAGGAAAAGTGATTCTAGCTGGGGCATATTGTTAAAGCATTTTTTTCAGAGTTGGCCAG 1860
    1861 GCAGTCTCCTACTGGCACATTCTCCCATTATGTAGAATAGAAATAGTACCTGTGTTTGGG 1920
    1981 AATTAAAGAAACATGCAGATGAAAGTTTTGACACATTAAAATACTTCTACAGTGACAAAG 2040
    2041 AAAAATCAAGAACAAAGCTTTTTGATATGTGCAACAAATTTAGAGGAAGTAAAAAGATAA 2100
    2101 ATGTGATGATTGGTCAAGAAATTATCCAGTTATTTACAAGGCCACTGATATTTTAAACGT 2160
    2161 CCAAAAGTTTGTTTAAATGGGCTGTTACCGCTGAGAATGATGAGGATGAGAATGATGGTT 2220
    2221 GAAGGTTACATTTTAGGAAATGAAGAAACTTAGAAAATTAATATAAAGACAGTGATGAAT 2280
    2281 ACAAAGAAGATTTTTATAACAATGTGTAAAATTTTTGGCCAGGGAAAGGAATATTGAAGT 2340
    2341 TAGATACAATTACTTACCTTTGAGGGAAATAATTGTTGGTAATGAGATGTGATGTTTCTC 2400
    2401 CTGCCACCTGGAAACAAAGCATTGAAGTCTGCAGTTGAAAAGCCCAACGTCTGTGAGATC
                                                             2460
    2521 TGACTTGCTTATTGGTCATTGCTAGTATTATCGACTCAGAACCTCTTTACTAATGGCTAG 2580
    2581 TAAATCATAATTGAGAAATTCTGAATTTTGACAAGGTCTCTGCTGTTGAAATGGTAAATT 2640
    2641 TATTATTTTTTTTTTTGTCATGATAAATTCTGGTTCAAGGTATGCTATCCATGAAATAATTTC 2700
    2701 TGACCAAAACTAAATTGATGCAATTTGATTATCCATCTTAGCCTACAGATGGCATCTGGT 2760
    2761 AACTTTTGACTGTTTTAAAAAATAAATCCACTATCAGAGTAGATTTGATGTTGGCTTCAG 2820
    2821 AAACATTTAGAAAAACAAAAGTTCAAAAATGTTTTCAGGAGGTGATAAGTTGAATAACTC 2880
    2881 TACAATGTTAGTTCTTTGAGGGGGACARAAAATTTAAAATCTTTGAAAGGTCTTATTTTA 2940
    3001 ATTCTGTTTTTCCAAAAGTAACCTGAATATAGCAATGAAGTTCAGTTTTGTTATTGGTAG 3060
    3061 TTTGGGCAGAGTCTCTTTTTGCAGCACCTGTTGTCTACCATAATTACAGAGGACATTTCC 3120
    3121 ATGTTCTAGCCAAGTATACTATTAGAATAAARAAACTTAACATTGAGTTGCTTCAACAGC 3180
```

Fig. 2

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3241 AATAGAATATTTAATTGTGTAAGATCTAATAGTATCATTATACTTAAGCAATCATATTCC 3300
   3301 TGATGATCTATGGGAAATAACTATTATTTAATTAATATTGAAACCAGGTTTTAAGATGTG 3360
  3361 TTAGCCAGTCCTGTTACTAGTAAATCTCTTTATTTGGAGAGAAATTTTAGATTGTTTTGT 3420
   3421 TCTCCTTATTAGAAGGATTGTAGAAAGAAAAAATGACTAATTGGAGAAAAATTGGGGAT 3480
   3481 ATATCATATTCACTGAATTCAAAATGTCTTCAGTTGTAAATCTTACCATTATTTTACGT 3540
   3601 CTTGATAACAGAAGTTTTAAAATAGCCATCTTAGAATCAGTGAAATATGGTAATGTATTA 3660
   3661 TTTTCCTCCTTTGAGTNAGGTCTTGTGCTTTTTNTTCCTGGCCACTAAATNTCACCATNT 3720
   3721 CCAANAAGCAAANTAAACCTATTCTGAATATTTTTGCTGTGAAACACTTGNCAGCAGAGC
   3841 CACTGAAACATTTCTAGTAGCCTGGAGNAGTTGACCTACCTGTGGAGATGCCTGCCATTA 3900
   3901 AATGGCATCCTGATGGCTTAATACACATCACTCTTCTGTGNAGGGTTTTAATTTTCAACA 3960
   3961 CAGCTTACTCTGTAGCATCATGTTTACATTGTATGTATAAAGATTATACNAAGGTGCAAT 4020
   4021 TGTGTATTTCTTCCTTAAAATGTATCAGTATAGGATTTAGAATCTCCATGTTGAAACTCT 4080
   4081 AAATGCATAGAAATAAAAAAAAAATTTTTCATTTTGGCTTTTCAGCCTAGTATTA 4140
   4141 AAACTGATAAAAGCAAAGCCATGCACAAAACTACCTCCCTAGAGAAAGGCTAGTCCCTTT 4200
   4201 TCTTCCCCATTCATTTCATTATGAACATAGTAGAAAAACAGCATATTCTTATCAAATTTGA 4260
                      M N I V E N S I F L S N L M 14
SEQ. ID 6-1
   4261 TGAAAAGCGCCAACACGTTTGAACTGAAATACGACTTGTCATGTGAACTGTACCGAATGT 4320
15 K S A N T F E L K Y D L S C E L Y R M S 34
   4321 CTACGTATTCCACTTTTCCTGCTGGGGTTCCTGTCTCAGAAAGGAGTCTTGCTCGTGCTG 4380
        TYSTPAGVPVSERSLARAG54
   4381 GTTTCTATTACACTGGTGTGAATGACAAGGTCAAATGCTTCTGTTGTGGCCTGATGCTGG 4440
        FYYTGVNDKVKCFCCGLMLD74
   4441 ATAACTGGAAAAGAGGAGACAGTCCTACTGAAAAGCATAAAAAGTTGTATCCTAGCTGCA 4500
        NWKRGDSPTEKHKKLYPSCR94
   4501 GATTCGTTCAGAGTCTAAATTCCGTTAACAACTTGGAAGCTACCTCTCAGCCTACTTTTC 4560
        FVQSLNSVNNLEATSQPTFP114
   4561 CTTCTTCAGTAACACATTCCACACACTCATTACTTCCGGGTACAGAAAACAGTGGATATT 4620
         SSVTHSTHSLLPGTENSGYF134
   4621 TCCGTGGCTCTTATTCAAACTCTCCATCAAATCCTGTAAACTCCAGAGCAAATCAAGAAT 4680
        R G S Y S N S P S N P V N S R A N Q E F 154
    135
   4681 TTTCTGCCTTGATGAGAAGTTCCTACCCCTGTCCAATGAATAACGAAAATGCCAGATTAC 4740
         SALMRSSYPCPMNNENARL 174
   4741 TTACTTTCAGACATGGCCATTGACTTTTCTGTCGCCAACAGATCTGGCACGAGCAGGCT 4800
         TFQTWPLTFLSPTDLARAGF194
   4801 TTTACTACATAGGACCTGGAGACAGAGTGGCTTGCTTTGCCTGTGGTGGAAAATTGAGCA 4860
        Y Y I G P G D R V A C F A C G G K L S N 214
   4861 ATTGGGAACCGAAGGATAATGCTATGTCAGAACACCTGAGACATTTTCCCAAATGCCCAT 4920
        WEPKDNAMSEHLRHFPKCPF234
```

Fig. 2 (cont.)



921 235	TTAT I	AGA B	AAA' N	TCA Q	GCT' L	TCA Q	AGA D	CAC T	TTC S	AAG R	ATA Y	CAC T	AGT V	TTC' S	TAA' N	TCT( L	GAG S	CAT( M	GCA( Q	T	4980 254
1981 255	CACA H	ATGC <b>A</b>	AGC <b>A</b>	CCG R	CTT <b>F</b>	TAA K	AAC T	ATT F	CTT F	TAA <b>N</b>	W	GCC P 2	CTC S	TAG S	TGT V	TCT. L	AGT' V	TAA' N	rcci P	rg E	5040 274
5041 275	AGC?	AGCT L	TGC A	AAG S	TGC A	GGG G	TTT F	TTA Y	ATT. Y	TGT V	'GĞĞ	TAA	CAG S	TGA D	TGA D	TGT V	CAA K	ATG(	CTT: F	TT C	5100 294
5101 295		STGA D	TGG G	G	L	CAG R	GTG C	TTG W	IGGA E	ATC S	TGG G	AGA D	TGA D	TCC P	ATG W	GGT V	TCA Q	ACA' H	TGC( A	CA K	5160 314
5161 315	AGT(	GGTT <b>F</b>	TCC P	2 AAG R	GTG	TGA E	GTA Y	CTI L	GAT I	R	SAAT I 3.4	K	AGG G	ACA Q	GGA E	GTT F	CAT I	CCG R	TCA: Q	AG V	5220 334
5221 335	TTC	AAGO <b>A</b>	CAG S	TTA Y	CCC	TCA H	L	L	TGA E	ACA	ŒΤ	GCT	ATC S	CAC T	ATC S	AGA D	CAG S	CCC. P	AGG G	AG D	5280 354
5281 355	ATG:	AAA N	ATGC A	AGA E	GTC S	ATC S	4 AAI I	רבידי	CCA H	TTI F	TGA E	ACC P	TG0 G	GAGA E	LAGA D	CCA H	TTC	AGA E	AGA' D	TG A	5340 374
5341 375	CAA	TCAT M	[GA]	GAA N	YATA T	TCC P	TGT V	GAT Î	TAZ Ń	ATG(	CTG(	CG]	GGZ E	raaa M	'GGG	CTI F	TAG	TAG R	AAG S	CC L	5400 394
5401 395	TGG V	TAA.	AAC <i>I</i> Q	AGA(	CAGI V	TCI Q	AGA( R	GAAI K	'AAA' I	CC.	PAGO A	CAAC T	CTG( G	GAG <i>i</i> B	AGAA N	ATTA Y	TAC R	ACT L	AGT V	CA N	5460 414
5461 415		ATC'	rtg: <b>V</b>	rgt'i L	TAGI D	ACTI L	CAC L	N	A	CAG	AAGI D	ATGI E	AAA! I	raac R	GGG? E	AAGA B	AGGA E	AGAG R	AGA E	AA R	5520 434
5521 435	GAG	CAA	CTG/	AGGZ E	AAA! K	AAGI E	AAT( S	5 CAA N	ATG	ATT' L	TAT: L	TAT L	'AA' I	TCC( R	GGA/ K	AGA/ N	ATA(	TAAE M	GGC A	AC L	5580 454
5581 455		TTC.	AAC H	ATT' L	TGA(	CTTC C	GTG' <b>V</b>	TAA' I	TTC( P	CAA' I	TCC' L	rgg: D	ATA S	GTC: L	TAC! L	AA1 T	CTG( A	CCGG G	IAAI	TA I	5640 474
564: 47!	L TTA	ATG	AAC. Q	AAG. E	AAC H	ATG: D	ATG' V	TTA' I	TTA K	AAC. Q	aga: K	AGA T	CAC. Q	AGA( T	CGT( S	CTT: L	racz Q	AAGO A	AAG R	AG E	5700 494
570: 49:	L AAC	TGA	TTG.	ATA T	CGA' I	TTT' L	TAG V	TAA K	AAG G	GAA N	ATA' I	TTG <b>A</b>	CAG A 6、	T	CTG'	TAT'	rca R	GAA! N	ACTO S	TC L	5760 514
576 51	1 TG(	CAAG	AAG A	CTG E	AAG A	CTG V	L	Y	ATG E	AGC H	ATT L	TAT F	TTG	rgc.	AAC Q	AGG D	ACA'	TAA! K	ATA Y	ATA I	5820 534
582 53			CAG		ATG		CAG	ATC	TAC	CAG V	TGG <b>E</b>	AAG E	AAC Q	AAT L	TGC R	GGA R	GAC' L	TACI Q	AAGA E	AAG E	5880 554
588 55		AGAA R 1	CAT	GTA	AAG V	TGT	GTA	TGG I D	ACA K	AAG	AAG V	TGT S	CCA	TAG V	TGT F	TTA I	TTC P	CTT( C	GTG G	STC H	5940 574
594 57	1 AT	CTA(	TAG	TAT	GCA	AAG	ATI	GTG	CTC	CTI	CTT	TAA R	GAA	AGT	GTC	CTA I	TTT C	GTA(	GGA( S	GTA T	6000 594

Fig. 2 (cont.)



6001 595	CAAT	CAA K	.GGG	TAC T	AGT V	TCG R	TAC T	ATI F	TC1 L	TT: S		TGA. *	AG	AAC	AA	CC	AA	AAC	'AT(	CG1	CT	AAAC	60 60	-
6061 6121 6181 6241 6301 6361	TTTA AAAA ATCI ATGA TTGO	ATTI AAAA AACO TTGI	TTA CCA AAA AAG TTGT	TTT TAT AAG TGA	ATT GAA AGG AGT AAT	TAC CAT TAC 'AAA	AAC ATA CAC AC GG(	TCI ATTI ATTI AAE	AAI TTTI AAI AGAI CAT(	AAA ACA TAT	CA AA CA TTT GC	TTG ACT ATA GAG CAG	TT' AA( TT( TT)	IT( GA( CA) AA( GT(	STG SAA ATC CCT GGT	TA TG AA TT GG	ACI ATI AA' AA' TA'	ATA AGC ITI GAA IGI	TT' CT' CA TT' GC	PAT PTT GC <i>I</i> PT <i>I</i> CT(	TAT TGT ATT AAA GTA	ATGT TCTT ATTG TATT GTCC	61 62 63 63 64	80 40 00 60
6421 6481 6541 6601	CAGO TGAO GTC: GGGI	GAC( FTT: ACA:	CTC TTTC TGGI	CCT ATC	TTA AGI TTI	AAA GTO	ACZ	AAA ATA	CAG CAT	AAC CG2	AA AAG	AAA GTG	CA.	AA! CA!	ACA FAT	CC.	AG GT'	gg <i>i</i> Tg <i>i</i>	ACA AT	CA! CA(	PTT CAT	CTCI TTTA	65	40

# Fig. 2 (cont.)



			1	2																
SEQ. ID 7 - 1	GAGCG	CCC	ירפר	ጥርአ	TCC	GAG	CCG	AGC	CGGG	CCG	TAT	CTC	CTT	GTC	GGC	GCC	GCT	GAT'	TCC	60
61	CGGCT	CTGC	CGGA	GGC	CTC	TAG	GC?	AGC(	CGCG	CAC	CTT	CCG	TGT	TTG	CTG	CGC	CCG	CAC	TGC	120
121	GATTT	ACA	ACCO	TGA	AGA	ATC	TCC	CTI	ATCC	CTA	TTT	TGT	CCC	CCT	GCA	GTA	ATA	AAT	CCC	180
181	ATTAT																			240
241	TGTGT	ATG	\ATI	'ATA	TTT	TTA	AA	ACA!	rtg <i>i</i>	\AG?	GTT	TTC	AGA	AAG	AAG	GCT	AGT	AGA	GTT	300
301	GATTA	CTG	ATAC	TT	ATC	CTA	AG	CAG:	[AC]	rtt?	TTG	GTA	GTA	CAA	TAT	TTT	GTT	AGG	CGT	360
361	TTCTG	ATA	ACA	CTAC	AAA	.GGA	CA	AGT:	rtt <i>i</i>	ATC	TGI	'GA'I	'AAA	TTG	ATT	AAT	GTT	TAC	AAC	420
421	ATGAC	'TGA'	TAA'	TA?	CAGO	TG	AT	AGT(	CCTI	[AA]	ATGA	TG	ACA	GGT	TAT	TTA	GTT	TTT	AAA	480
481	TGCAG	TGT	AAA	AAG'	rgte	CTC	TG(	GAA	ATT:	TA:	rggc	TA?	CTA	AGT	TTA	TGG	BAGA	AAA	TAC	540
541	CTTCA	GTT	GAT(	CAA	GAAT	'AA'	ľAG'	TGG'	TAT	ACA	AAGI	TAC	GAA	.GAA	AGT	CAA	CAT	'GAT	GCT	600
601	GCAGG	'AAA'	TGG	AAA	CAAZ	ATAC	CAA	ATG.	ATA:	rtt?	\ACI	AA	SATA	GAG	TTT	ACA	GTI	TTT	GAA	660
661	CTTTA	AGC	CAA	ATT(	CAT	[TG]	ACA'	TCA	AGC/	ACT	ATAG	CAC	3GCA	CAG	GTT	CAA	ACAA	AGC	TTG	720
721	TGGGT	TTAT	GAC'	TTC	CCC	CAA	AAG	TTG	TCA	GCT(	GAAC	TAI	<b>TTT</b>	AGC	CCA	CTI	CAAC	TAA	ATA	780
781	CTATO	BATG.	ATA	AGC'	rgT(	GTG2	AAC	TTA	GCT'	TTT	AAA'	'AG	rgte	ACC	ATA	TG	AAGG	TTI	AAT	840
841	TTACT	TTT	GTT'	TAT'	TGG	AAT	AAA	ATG	AGA'	TTT'	rtt(	GG'	rtgi	'CAT	GTI	'AA!	AGTO	CTI	ATA	900
901	GGGA	AAGA	AGC	CTG	CAT	ATA	TTA	TTT	TAC	CTT	GTG(	GCA'	[AA]	CAG	TAA	TT	GGT(	TG	TAT	960
961	TCAG	<b>GCTT</b>	CAT	AGC'	TTG'	raa(	CCA	RAT	ATA	AAT.	AAA	AGG	CATA	TA!	OAT!	GT	ATT(	TA?	ragt	1020
1021	TGCT	TAGA	ATT	TTG	TTA	ATA'	TAA	ATC	TCT	GTG	AAA	AAT	CAA	GAC	TTI	TA	ATA'	TT?	<b>CAG</b>	1080
1081	AAGT	GCAT	CCA	CCT	TTC.	AGG	GCT	TTA	AGT	TAG	TAT'	TAA	CTC	\AGI	\TTI	\TG	AAC	\AA'	TAGC	1140
1141															•					1200
1201																				1260
1261																				1320
1321	TTCA	TGTG	AAG	AAA	TTT	CAT	GTG	<b>IAA</b> :	GTT	TTA	GCT.	ATC	AAA(	CAG'	rac:	rgt	CAC	CTA	CTCA	1380
1381	TGCA H	CAAA	ACI	'GCC	TCC	CAA	AGA	CTI	TTC	CCA	GGT	<u>c</u> cc	ŢCG	[AT	ÇAA	<u>A</u> AC	<u>A</u> TT	<u>A</u> AG	M AGTA	1 1440 21
SEQ. ID 8 - 2																				1500
1441	TAAT <b>M</b>	GGAZ	GAI	'AGC	'ÀCG	ATC	TTC L	TCA S	GAT D	'TGG W	ACA T	AAC N	AGC S	AAC. N	AAA K	CAA Q	AAA K	ATG. M	AAGT K Y	4100
1501	ልጥርል	ርሞሞባ 																	GTGC V P	1560 61
1342	n D	F																		
1561	CTGT	CŢC	AGAI	LAGO	AGT	CTI	'GC'	rgg:	rgci	rgg1	TTT	TAT	TAT Y	ACT T	GGT G	GTG V	AAT N	GAC D	AAGG K V	1620 81
	, V	3	B OMM/	TO CO	e Tencom	ים ים	A POTO	ሌ ግእጥ(	ው ያርጥር	ינטי פעטי	ב ממי	ት ጥርር	. <u>-</u> !aaa	- ሮሞል	GGA:	Gac	ኃ. 'ልርጥ	- ССТ	ATTC	1680
1621 82	TCAA K	ATG(	F	C	G	G	L	M	L	D	N	W	K	Ľ	Ğ	Ď	S	Ρ̈	ΪŌ	1680 101
1681	AAAA	GCA'	T <u>A</u> A	AÇA(	GCT <i>P</i>	[AŢ	ľ <u>C</u> C'	r <u>a</u> g(	CŢGI	(AGC	TTI	ľŢĄ'	'CAG	AAT	ÇTG	GTI	'ŢCA	GCT	AGTC	1740 121
102	2 K	H	K	Q	T.	¥ 	P	5 		5		T	¥	www M	П	V (13.11	e Smal	ra Tara	ים ט	1900
1741	TGGG	ATC S	CAC(	CTC: S	raac K	RAA'I N	'AC' T	GTC: S	P P	M M	R R	N N	SAGT	F	GCA A	H	S	L	SP	1800 141
1801	י רכאַ( רכאַ(	ירידים. יינידים	GGA	ACA'	ragi	rago	TT	GTT(	CAG:	rgg:	rtci	TAC	TCC	AGC	CTT	ŢCI	r <u>c</u> ca	AAC	:cctc	1860 161
142	Ť	Ĺ	Ĕ	Ħ	S	S	L	F	S	G	S	Y	S	S	ŗ	S 	 	N 	r 1	1000 101
1867	TTA	ATŢC	TAG.	AGC	AGT	rgaz R	AGA D	CAT	CTC:	TTC/ S	ATCO S	R R	BACT T	'AAC N	CCC P	TA( Y	CAGI S	rat: Y	GCAA A N	181
1004	1 mus.	כ העלוב	Krym π	y Z	ነ አርሶ	ግ <u>ል</u> ር።	Σ Turn	– ጥ/ጉጥ	- ጥልጥ	 ርጥል	ר ממשי	 የጆጥ(	- ITGO	CC)	TTA	ACT	r <b>T</b> T	TTC	TCAC	1980 201
132	Z IGAU	TAC	E	ron B	A A	R	'nį.	Ľ	Ť	Ť'n	Ĭ	M `	Ŵ	Ď	L	T	F	L	STCAC S I	201

Fig. 3

	81 02	CAT	CA S	GAZ E	ATT L	GG A	CA	AG? R	AGC <b>A</b>	TG( G	GTT F	TI	'TA' Y	TTA Y	ATA I	TA	GG <i>I</i> <b>G</b>	P P	TGG G	AGA D	TAC R	GG V	TA	GCC A	TGC C	T F	2040. 221
	41 22		GCC		rgg <b>G</b>	TG G	GG	AA( K	GCT L	CA(	GTA N	I L	TG <b>W</b>	GG <i>I</i> B	AC P	CA	AA( K	GGA D	TGA D	TGC A	TAT M	GT S	CA	gaa E	CAC H	CR	2100 241
	01					TC F	CC	AA( N	CTG C	TC P	CAT	TT	TT L	GG <i>I</i> <b>E</b>	AA/ N	TA.	TC: S	rct L	AGA E	AAC T	TC: L	rga R	.GG	TTT F	AGC S	A I	2160 261
	61	TT'	rc <i>i</i> S	laa' N	TCI L	GA S	.GC	AT(	GCA Q	GA T	CA(	IAI	rgc <b>A</b>	AG(	CTC R	GA	AT( M	GAG R	AAC T	ATT	TAT	TGT Y		W	P	T	2220 281
	221	CT	AGI S	rgt <b>V</b>	TC( P	AC 7	STI 7	CA Q	GCC <b>P</b>	TG E	AG(	CAC 2	GCT L	TG( <b>A</b>	CAA S	GI S	'GC' A	TGG <b>G</b>	TTI F	TT? Y	ATT Y	ATG V	TG	GGT G	CGC	'A N	2280 301
	281		GA'I D	rga D	TG?	CZ I	LAA C	TG C	CTI F	TT C	GT:	rg: C	rga D	TG(	GTO	GC	TT L	GAG R	GT(	TTE W	GGG. E	AAT S	CT	GGA G	GAT D	D D	2340 321
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23	341	AT	CCZ	ATG	GG'	ra(	3A?	CA	TGC	CA	AG'	rg(	GTI	TC	CAA	/Ğ	TG	TGA	GT:	rct'	rga	TAC	'GA	ATC	AA	₹Ğ	2400
•	322		P	W	V	]	3	H	A	K	. 1	N	F	P	·	2	C	ĸ	ŀ	ىل	T	r	. 5	m 5√6	V	G	241
24	401	GC	CA	AGA	GT:	TT	GT?	[GA	TG	\GA	TT	CA	AGG	TA	GA?	[A]	CCC	TCF	ATC:	rtc'	TTG	AA(	AC	QT (	TT(	3T	2460
•	342		Q	E	F	١	V	D	E	Ι	(	Q	G	R	3	ľ	P	H	6.	ь .7	E	ς	2	P	Ь	S	301
2	461	CA	AC'	TTC	'AG	AT.	AC(	CAC	TG	GAG	AA	GA.	AA/	ATG	CT(	GA(	CCC	ACC	:AA	[TA	TTC	AT'	rT7	'GG2	YCC.	ľG	2520
	362		T		D		T		G	E		E	N	A	. ]	D	P	P	Í	`I	H	1	?	G	P	G	381
2	E21	Cλ	Gλ	3 3 C	т. 1 ф. ф.	ርሞ <sup>י</sup>	<b>ጥ</b> ር ?	AC A	AC	ልጥ(	ירים	GТ	CAT	rga	TG	AA'	rac	ACC	CTG'	TGG	TTA	AA'	rc1	rGC(	CTT	GG	2580
	382		E	S	S	CI	S	E	D	7	1	V	M	M		N	T	P	V	۷	K	: :	S	A	L	E	401
2	E 0 1	2 2	ייג	aaa	ייי	ար	יגג	<b>ተ</b> ልር	יאמ:	ልሮር	ገጥር	GТ	GAZ	AAC	AA	AC.	AGT	TC.	AAA	GTA	AAA	TC	CTC	BAC	AAC	TG	2640
	402		M		F		N	R	D	I	-	V	K	Q	,	T	V	Q	S	K	I	: 1	L	T	T	G	421
າ	641	G	CA	GAI	ነ ርጥ	ገጥ	ΔΔ	AAC	'AG'	TT.	۱AT	GA	TA'	ГТG	TG	TC	AGC	'AC'	TTC	TTA	ATG	CT	GA	AGA'	rga	AA	2700
	422	!	E	N	Y	•	K	T	V	1	1	D	I	V	,	S	A	L	L	N 7.	.8	1	B	D	E	K	441
2	701	Δ2	ΔC	lAG:	A A G	:AG	GA	GAZ	AGG	AA	AAA	CA	AG	CTG	AA	GA	AA'	'GG	CAT	CAG	ATO	'TA	TT(	GTC.	ATT	AA	2760
	442	<b>:</b>	R	E	E	}	E	K	E	]	K	Q	A	E		E	M	A	S	L	, ,	,	יו	5	ת	1	401
2	761	ψr	ירה	GA:	AGA	AC	'AG	AA'	rgg	CT	CTC	TT:	TC.	AAC	:AA	TT	GA(	'AT	GTG	TGC	TT!	CT	AT(	CCT	GGA	TA	2820
-	462	2	R	K	N	1	R	M	A	. 1	L	F	Q	. (	)	L	T	C	V	I	. 1	?	I	L	D	N	481
2	221	י גו	רכיז	ւփփ	TA 2	λ λ (	:GC	CA	ATG	TA	TTA	'AA	ΥA	AAC	:AG	GA	AC.	ATG	ATA	TT	TT	AAA	CA	AAA	AAC	AC	2880
-	482	2	L	L	F	ζ.	A	N	V		I	N	K	ζ	)	E	H	D	I	]		K	Q	K	T	Q	501
-	001	1 2	ייגיי	רא רי	<del>ረ</del> ሞባ	ייףי ז	מיי	) A C	CCZ	GA	CZI	CT	rga	<b>ጥ</b> ፐ(	TAF	'AC	CA'	rtt	TGG	TT	\AA(	<b>GGA</b>	AA	TGC	TGC	:GG	2940
	502		I	P	I		Q	A	R	}	E	L	I	I	)	T	Ι	L	V	7 E	ζ (	3	N	A	A	A	521
,	0 0 4 1	1 ^	יגם		ጥሪካ	/ קונון	<b>ג</b> קר	2.2	א פיז	ייביי	ርጥ ነ	<u>.</u> 2 2	7 7 C	מב	۲Т	מטי	СТ	СТА	CAT	TG	[AT	AAG	AA	CTT	ATI	'TG	3000
	52	2	N	I	. 1	?	K	N	(	;	L	K	E			D	S	T	' I	, ;		K	N	L	r	٧	241
		۲ <u>۷</u>	9 9	2 m 2	3.03	<b>.</b> 2 '	חגון	גייטים	እ (ግግ	יתינקי	<b>እ</b> ጥ/	ירי	ת גר	ር እ	222	CD	ጥር።	ጥጥጥ	ን. ነርነጋ	¥;T(	, CTG'	TCA	CT	GGA	AG	\AC	3060 561
	54.	2人	נטט מ	M I A	MG/	n.a. N	M	. GA K	נטת	.ai	I.	P	T		3.2. B	D	v	S	; (		L	S	L	E	B	Ç	561
		_	_								_	-															

Fig. 3 (cont.)



3061 562		GAG R		GTT <b>L</b>		AGAI E	AGAJ E	ACGI R	AACT T	rtg: C	raa <i>i</i> K	AGT( V	GTG! C		GGA D	CAA. K	AGA E	AGT V	TTC' S	TG V	3120 581
3121 582			TAT I		TTG C		rca: H	rct( L	GGT2 V	AGTZ V	ATG(	CCA Q	GGA E	ATG C	TGC A	CCC' P	TTC S	TCT L	AAG. R	AA K	3180 601
3181 602			TAT I			GGG' G	TAT: I	AAT( I	CAA( K	GGG'	TAC' T	TGT V	TCG' R	TAC T	ATT F	TCT L	CTC S	TTA *	AAG	AA	3240 618
3241 3301 3361 3421 3481 3541 3601 3661	CCAT GCTT TTTA GGAG AGAA	TGG TTTT TAG AGC	AAG TACA TGT TTTT GAG	TAA TAA AGG CAC GAA STTA	AAA TAA GAA TGC TAC TTTT	GGG. TCT. GAT. TTG. TAA TGC.	AAT TGT TTA TTA ATT CGA	TAT TTC TGT TGC ATA ATT	GAG' TGA TTG ATC GTG' GTC'	TTT' AAA GTG ATT TAG TTT	TTC GAT AAC TCA AAA GGT	AAT GGT TAT GGA AGA GCT	TAG ATC ATT GTT ACT	TAA ATA AGT ACT GGA CAC	CAT TAT 'ATG 'GGA 'AAC	TCA TTA TAT TTT CAG	TGT ATC GTG GTT GAA	TCT TTA TAC GTT CTC	AGT ATC CTA CTT TGG ATA	TG AG TC AG AG	3360 3420 3480 3540 3600

Fig. 3 (cont.)



SEQ. ID	9-1	ATTI	'TT	TA	AA'	rte	A?	ľGC	'AT	TAA	CAI	T	CTA	AA(	'AT'	CA.	rct(	3TT	TTT	AAA	TAG	TA	W	LAT	T	60
014	61	CAAC	ւրդ	ጥር	יררי	$\mathbf{r}\mathbf{r}c$	2 A 2	ልጥ ል	TG	ፐልል	ፐርጀ	נידו	CCA	TTI	\TAI	ACA/	$\mathbf{ATT}$	ATG	CAT	AGT	СТТ	TA	$\Lambda T P$	WI	C	120
	121	ጥርሮኔ	ТΔ	TT	TTT:	<b>ΔΤ</b> (	ברים	የርረር	ጥጥ	TCA	TGT	$\mathbf{T}$	TTT	CCI	'AA'	TA	ATG	ACT	TCA	CAT	GTT	TAI	\T?	\TT	Τ	180
	101	ממידמ	TT	T	ייייי	ኮርባ	<u> የ</u> ርን	AT A	CT	ፐፐር	CAT	'A'	$\mathbf{T}\mathbf{T}\mathbf{T}$	ATA	\TA	\AA'	rga.	ATA	CTT	AAG	ATC	AG:	ľAľ	\TT	'C	240
	241	ጥርረጥ	יריז	יבחי	ידידיי	ויידיבו	נידיז	ልጥል	TΆ	CTA	TTT	rT(	CCA	TC	\AA/	AGA	CAA	AAT	GGG	ACT	GAG	GT.	ľG₽	<b>i</b> GG	iC	300
	2 0 1	ጥሮር፣	יייים	CT	ממי	አርር	ገል (	ገጥባ	ካጥሮ	СТА	AAZ	T	GCA	AA	\GG(	CCC'	rat(	GAT	GGA	$\mathtt{TCC}$	CTA	GT	AC I	CTA	T	360
	361	TCG1	ייי	יר אי	מא	מטת מאלים	יתי זגי	1 1 C	ם מי	ርርጥ	CCC	200	ን ጥር	TAC	GT(	CTG'	TTA	GAG	CAT	GTG	TTT	'GG	CA'	CTA	T	420
	421	TIM	701	ישט	ימטי	3 3 (	30.0 73.0	י מונה ליחורי	A A	777	CCI	A C I	220	ים מי	CA	ΔΔΔ	GCG(	CAG	ACT	TTA	AAA	CT	CAZ	AGT	'G	480
	421	GTG	M		AJ.	UM.	CA	03.0	ישור זענע	W 12 C		יידויין גיטיני	ממני דאר	ית תי	ע יחים	מ מ מ	TCT/	ርጥር	ע יויים	CTT	דידעי	GT	GC	TAT	T	540
	481 541	GTT	GG	TP	AT	GIA	ACI	GAL	100	IWC	. LG.	L I	y unu TVPC	יאמי. יא פי	הערעו דירטי	ע עועע ביינייני	יע שים יע שים	TC3	CAA	מידע	ርጥር	יידי	TΔ	rcc	·Ψ	600
	541 601	ATTI	rri	'A'J	GT	CA:	TC	ACI	GG	ATA	MIX	A II	OM4	AG.	1 G C 7 m m	L C L	YUY GIV	7 Y Y T C'U	CCT	CCI	CAL	CT.	יייי העי	יט דמיז	T	660
	601	TTG	rGi	TT	TG	AA	GT.	TCC	TA	ATC	CA	ATO	GII	CI	-11	7 7 C	カリハ	7 7 C	iddi Iggi	TO THE	יא ריק	ישרט ישני	CC.	12)	אי	720
		TTC	CAC	AC	AA	GA:	TG.	AC".	TT	TAA	CAC	ďΓ	TTJ	GA	166.	AAC	D TWG	WW/	F	101	T	7	رمب ا	D D	The state of	17
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		CCA	AT	/AC	3GA	TG.	AA	GA/	ATT	TGT	AG	AA	GAG	TT.	I'AA	TAG	ΑŢΙ	aar V	m NYV	.WII	. I.G(	M. M	AC.	D T T /	D.	37
	18	N	I	ζ.	D	E		E	F	V	K		K	r	N	K	П	V	T	F	A	14	•	C	F	31
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	38	S	•	3	S	P		<b>V</b> .	S	A	S		T	ъ	A	K	A	G	F	п	1		,	G		31
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	841	AAG	GA(	GA(	CAC	:CG	TG	CA	ATG	TT.	I'CA	GT.	TG.	rca	TGC	.GGC	TAN	AGA D	D TMC	M M		v V	, ni	G G	ח	77
	58	G	]	Dj.	<b>T</b> .	_v		<b>Q</b> . :	_ <u>C</u>	L,	. Sୁ	٠.	Ç	Ĥ	<b>.A</b>	-∯ -	. 📥	٧.	. 'Ž		,⊻	1		Ğ	75	H <sub>a</sub> m
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		ACT	CA	GC'	TGT	'TG	GA	AG.	AC/	/CV	3GA	GA	ATA	ATC		AAA	TTG	CAU	TAL.	LIA.	LUM	WIG.	ı GT	D. T.	A.	900
	78	S		A	V	G	}	R	H	R	R	1	I	S	P	N	Ċ	K	F	<b>T</b>	N	٠	,	F	I	<i>31</i>
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	961	ATT	TT	GA	AA	\TG	GI	'GC	TG(	CAC	AGT	CT	'AC.	AAA	TCC	TGG	TAT	CCA	AAA	7.T.C	عانات	AGI	AC	aa. V	W.T.	1020
	98	F		E	N	G	;	A	A	Q	S	i	T	N	P	G	Т	Q	N	G	¥	I	•	V	3	117
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	1021	CTG	AΑ	AΑ	CTC	FTG	TC	GG	AA	ATA	GAA	IA.	CC.	TTT	TGC	:000	TGF	CA	الكافاق	CAC	CIG	AGA	CT	CA TT	16	1080
	118	E	;	N	C	V	7	G	N	R	N		P	F	A	P	ע	K	P	P	E	1		Д	A	137
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	1081	CTG	AT	TA	TC:	rci	TT	BAG	AA	CTG	GAC	:AC	GT	TGI	AG/	(ATA	TTT	JAG.	ACA	CCA	TAT	ACC		JAG	ga N	1140 157
	138	D	)	Y	L	Ι	_	R	T	G	Q	)	V	V	D	I	S	ע	T	T	Y	Ŀ		K	N	131
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	1141	ACC	CT:	'GC			[G]	ľAG	TG.	AAG	AAG	CC	CAG	ATI	'GA	IGT(	JAT.	rrc.	AGA	ACT	GGC	CGC	JAC	TA.	IG	1200
	158	F	)	A	M	(	3	S	E	E	A	7	R	L	K	S	F	Q	N	W	P	Ţ	,	I	A	177
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			IA:	TT.	'AA	CCC	CC	CAG	AG	AGT	TAC	3C7	rag	TGC	TG	3CC.	rc T	ACT	ACA	CAG	والمال	CT	ja:	TGA	TC	1260
	178	F	I	L	T	1	P	R	E	L	P	1	S	A	G	'n	Y	Y	Т	G	A	. 1	J	ע	¥	197
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	1261	L AAC	3T(	CZ	TA	GC'	TT:	TT	TT	GTG	GGG	3G2	AAA	AC.	'GA	AAA	ATT	عاياتا	AAC	CCT	GIG	AT	. G.	ıGC	.CI	1320
	198	3 7	7	Q	C	1	F	C	C	G	(	3	K	L	K	N	W	B	P	C	L	, ,	Ķ	A	М	217
																							am,			1200
	1321	L GG	rc?	\G/	AAC	AC.	AG	GA(	BAC	ACI	TT	CC	CAA	TT	3CT	TTT	TTG	TTI	TGG	GCC	GGA	LAC	GT.	ľA	YTG	1380
	218	3 :	S	E	H		R ·	R	H	F	' ]	P	N	C	F	F	V	L	, G	R	. 1	1	٧	N	V	237
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	138	L TT	CG	AA(	ЗТG	AA	TC	TG	<b>GTG</b>	TGA	GT'	TC'	TG	ATA	GGA.	ATT	TCC	CAA	ATI	CAA	CA	IAC'	TC:	LC(	AA.	1440
		8 1	R	S	E	}	S	G	V	2	3	S	D	R	N	F	P	I,	ı S	1	: 1	1	5	P	K	257
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	144	1 GA	AA'	TC(	CAG	CC	ΑT	GG(	CAG	'AA'	TAT	GA.	AG(	CAC	GGA	TCG	TTA	CTI	TTG	GA	CA	GG	AC	AT(	إتاد	1500
	25	8	N	P	A		M	A	E	3		B	A	R	I	. V	T	E	. (	]	: 1	٧	T	S	2	·277

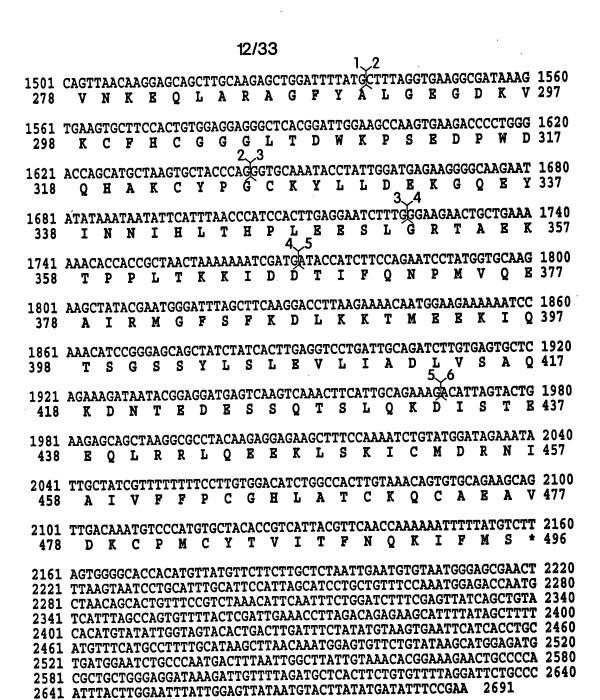


Fig. 4 (cont.)



SEQ. ID	11-1	TGGG	AGT:	rcc(	CCGC	BAGC	CCI	rgg <i>i</i>	AGG	AAA(	GCA(	CCG	CAG	3TC1	rga(	3CA	GCC(	CTG	AGC	CGG	GC	60
	61	AGGG'	TGG	GGG(	CAGI	rggc	TA	AGG	CT	AGC'	rgg	GGA(	CGA'	rtt <i>i</i>	AAA(	3GT	ATC	GCG(	CCA	CCC	AG	120
	121	CCAC	ACC	CCA	CAGO	3CC#	AGG	CGA	igg'	ŢGC	CAC	CCC	CGGI	AGA"	rca(	3AG	GTC	ATT	GCT(	GGC	GT	180
	181	TCAG.	AGC	CTA	GGA <i>I</i>	AGTO	3GG(	CTG	ĠĞ'	Z TAT(	CAG	CCT	AGC	AGT	AAA	ACC	GAC	CAG.	AAG	CCA'	TG	240
		CACA																				
		ACAT																				
SEQ. ID					D												D	T	F		L	
	361 21	TGAA	GTA'		CTT'	TTC(	CTG'		GCT L	GTA V	CCG.	ATT	GTC	CAC(	GTA' Y	TTC	AGC A	TTT F	TCC P	CAG R	GG G	420 40
			_	-	-	-	_	_	_	_										/	m/I	400
	421 41	GAGT V	TCC P		GTC. S	AGA) E	AAG R	GAG S	TCT <b>L</b>	GGC A	TCG R	TGC A	TGG G	F	Y	Y	T	G	A	N	D	60
	481	ACAA	GGT	CAA	GTG	CTT	CTG	CTG	TGG	CCT	GAT	GCT	AGA	CAA	CTG	GAA	ACA	AGG	GGA	CAG	TC	540
	61	K	V	K	C	F	C	C	G	L	M	L	D	N	W	K	Q	G	D	S	P	80
	541	CCAT	'GGA	GAA	.GCA	CAG.	AAA	GTT	GTA	CCC	CAG	CTG	CAA	CTT	TGT	ACA	GAC	TTT	GAA	TCC	AG	600
: ===	81	M	E	K	H	R	K	L	Y	<b>Р</b>	S	C	N	F	<u>v</u>	Q	T	L	N	<u> P</u>	A	100
		CCAA							TCG	GCC	TTC	TCT	TCC	TTC	CAC	GGC	GAT	GAG	CAC	CAI	:GC	660 120
	101				E		S	P		P	-			S	T		M	S	T		-	
		CTTI					TTC	TGA			TGG	CTA	TTT	CAG	TGG	CTC	ATT: Y	CTC	GAG	CTI	DT:	720 140
	121	L	S	F	A	S	-	_	N	_	_	_										
		CCTC	CAGA	rcc.	TGT	'GAA	CTI	CCG	AGC	AAA:	TCA	AGA	TTG	TCC	TGC:	TTT: T.	GAO S	CAC T	AA! S	TCC P	CT Y	780 160
	141	_																			_	
	781 161	ACC	ACTI	TG(	TAAC M	'GAA	CAC	AGA	GAZ K	AGGC	CAC R	TTA: T.	ACT.	CAC. T	CTA: Y	TG? R	AAA! T	OTA: W	GCC P	TAI L	IGT S	840 180
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	841 181	CTT'			CACO P		AAA. K			CCA <i>I</i> K		AGC G	CTI F	CTA Y	ACTA Y	ICA:	PAGG G	ACC P	TGC. G	AGA D	ATA R	200
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	901 201	GAG'	TGG( <b>A</b>	CTC C	CTI F	TGC <b>A</b>	GTO. C	CG <i>I</i> D	ATG( G	3GA.∕ K	AAC'I L	rgac S	CAP <b>N</b>	V W	egg <i>e</i> E	AACI R	STAA K	AGG2 D	ATG2 D	A A	M	220
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	961 221	TGT.	CAGA R	AGC H	ACC <i>i</i> O	AGAG R	3GC∤ <b>H</b>	atti F	rcco P	CCAC S	CTC C	TCC P	F	L	K K	aag, D	L	G	Q	S	A	1020 240
					-																	1080
	1021 241	. CTT . S	CGA R	GAT. <b>Y</b>	ACA( T	UTG1	rcto S	N	ACC:	TGA( S	SCA. M	Q	nga T	H	A	A	R	I	R	T	F	260
	1001																					1140
		L TCT L S	CTA. N	act W	انانانان P	S	S	A.	L	V	H	S	Q	E	L	A	S	A	G	F	Y	280
	4141			2	2																	1200
	281	l Y	T	Ġ	H	S	D	D	V	K	C	F	C	C	D	G	G	P	K	C	W	300
	120	ו מממ	! <b>አ</b> ልሞ	ሮሞር	CZC	እጥር:	ACC	CCT	GGG	TGG	AAC	ATG	CCA	AGT(	GGT'	TTC	CAA	GGT	GTG.	AGT.	ACT	1260
	30	l GGC	S	G	D	D	P	W	V	E	H	A	K	W	F	P	R	^c	E	Y	L	320

Fig. 5



L2(			TC	AG.	AA T	TC.	AA.	AGG	) ) )	AA	GA	AT:	TT(	GT(	CAC	3C(	CAA	GT'	TCA O	AG(	OTC	GC	TAT Y	rcc' P	TCA H	TC L	TA(	C 1	320 340
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13 3			'AT		TG G	GC	CC'	TG( <b>G</b>	GAC E	AA	AG S	TT(	CG	GAZ E	AGZ D	TA '	GT( V	GT V	CAI M	'GA' <b>M</b>	TG <i>I</i>	GC S	AC( T	GCC P	TG1 V	GG' V	TT	A :	1440 380
-		AAC	:C2	GC	CT	ΨG	GA	AA'	rgo	:GC	TT:	'CA	GT.	AG	GA	GC(	CT(	GT	GAG	AC.	AG!	\CG	GT'	TCA	.GC(	3GC	'AG	A :	1500
3	81	1	A	A	Ι		E	M	(	3	F	S		R	S		L	V	R	Q	1	Ľ	٧	ŭ	K	,	!	Ι,	100
	01 01	TC	CTO L	GC A	C.P.	CI	'GG	TG:	AGI	AAC	TA Y	CA R	GG	AC T	CG'	TC.	AG'. S	rga D	CCI L	CG V	TT	ATA [	.GG	CTT L	AC'. L	L	, ,	A ·	1560 420
_								GA			G.	\GC	AG	AT	GG.	AG	CA(	GGC	GG	CCG	AG(	3AC	GA	GGA	GT(	CAG	7 英T	G	1620
4	21	1	B	D	I	3	M	R	1	3	E	Q		M	E		Q	A	A	K		≤	ĸ	ĸ	5	1	,	ע	440
	21 41		CT <i>i</i> L				TAZ T	CC R	GGZ	AA( K	A. N	ACA K	AA	AT M	GG <b>V</b>	TG	CT' L	rtt F	CC2	AAC H	AT'	rto L	AC T	GTG C	TG' V	TG!	ACA [	C P	1680 460
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	41	AA	CA(	GAZ K	A.A.	CCI P	ACA H	CA T	CC	TT) L	ACZ O	AAG A	CA	AAG S	CA T	CA	CT L	GAT I	TG. D	ATA I	CT	GT( <b>V</b>	ett L	AG( A	AA: K	AA(	gga G	A N	1800 500
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Fig. 5 (cont.)



121 181 241 301 361 421 481 541 601	AACA	GAT TAG CAA GTT AAC CTC AAG	TCT AAC GTT GGT CCA AGT AGT AAC	TAG TAT TGGT TTA TTCC TAAA TAT TAG	TTA CTI GAI CAG TTAG GAG STGI	TTTT CAL CAL TATA TCAL TCAL TCAL	DADI TAAL LADI LADI LADI LADI DATA DDI SDI LADI	GGTAGAL GAL ACT( ACT( ACT( ATA) GAT( AAT(	AACA AAG TGT TTT. GTA GTG GTG CTA	AAA GGC CTG AAC GTC TGA AAA GCC AGG AGA	AGA CTT TTG AGT CAT AGG CTA CAG AGI	AAG AAA ACC GAG ATA CTT GTA CCC ATT	CCA' CAC' AGA' GAC' CTC' AGT' CCT' AGA TGT GTG	IGT( AGG( IGT) GTT) CTG) TAA( TCA( AGG( AGA( CCT(	CTTO CGGA ATTO AACA GGAA CTTO GTGA GTGA GTGA	SAAT ACTT ACA AGTC AAAC STCA SATA SATG GTGG	TGA TAI TGA TGA TGA TGI STGI	TTC TAAA TAT TGCT TTTA TAGT ACCC TCAA	GTT ATG ATG CAG CAG AAGT CCC ATT (AGT	CT SCA ACA AAG TTG SAC TCC TAA AAA CAC	120 180 240 300 360 420 480 540
781 SEQ. ID 14-2	GGAC D			GT( <b>V</b>	CTC( S	CCA( Q	GAG R	ACT L	CGG <b>G</b>	CCA Q	AGC G	TAC T	CTT L	ACA H	CCA Q	AAA <i>I</i> K	ACT: L	raaz K	ACG! R	TAT I	840 21
841 22	AATO M		GAA( K		_	AAT I	CTT( L	GTC. S	AAA N	TTG <b>W</b>	GA(	CAAA K	.GGA E	GAG S	CGA E	AGAI E	AAA K	AAT( M	GAA( K	GTT F	900 <b>41</b>
901 42	TGA(	CTTI F	rtc S	GTG'	rga: E	ACT L	CTA Y	CCG R	AAT M	GTC S	TAC T	ATA: Y	TTC S	AGC A	TTT'	TCC( P	CAG R	GGG G	AGT' V	TCC P	960 61
961 62	TGT(	CTC/ S	AGA(	GAG( R	GAG' S	TCT L	GGC A	TCG R	TGC <b>A</b>	TGG G	CTT F	TTT Y	ATTA Y	TAC T	AGG G	TGT( V	GAA' N	TGA D	CAA K	AGT V	1020 81
1021 82			CTT( F	_		TGG G	CCT L	GAT M	GTI L	GG <i>I</i> D	ATA <b>N</b>	ACTO W	GAA K	ACA Q	AGG G	GGA D	CAG S	TCC P	TGT V	TGA E	1080 101
1081 102			CAG. R	ACA Q	GTT <b>F</b>	CTA Y	TCC P	CAG S	CTC C	CA( S	CT'	rtg: <b>V</b>	TACA Q	GAC T	TCT L	GCT L	TTC S	AGC A	CAG S	TCT L	1140 121
1141 122		GTC' S		ATC S	TAA K	GAA N	TAT <b>M</b>	GTC S	TCC P	TGT V	rga: K	AAA( S	TAC R	ATT F	TGC A	ACA H	TTC S	GTC S	ACC P	TCT L	1200 141
1201 142	GGA.	ACG R	AGG G	TGG <b>G</b>	CAT I	TCA H	CTC S	CAA N	L L	GT( C	GCT S	CTA( S	GCC( P	CTCI L	TAA <b>N</b>	TTC S	TAG R	AGC A	AGT V	GGA E	1260 161
1261 162	AGA D	CTT F	CTC S	ATC S	AAG R	GAT M	GGA D	TCC P	CTC	GCA(	GCT. Y	ATG( A	CCAT M	GAG S	TAC T	AGA E	AGA E	.GGC <b>A</b>	CAG R	ATT F	1320 181
1321 182	TCT	TAC T	TTA Y	CAG S	TAT M	GTG W	GCC P	TTI L	AAI S	GTT' <b>F</b>	TTC L	TGT S	CAC( P	CAG( A	CAGA E	GCT L	'GGC <b>A</b>	CAG R	AGC A	TGG G	1380 201
1381 202	CTT	CTA Y	ATTA Y	CAI	'AGG	GC( P	CTG(	AGA D	ACA( R	GGG' <b>V</b>	TGG <b>A</b>	CCT C	GTT'	TTG( <b>A</b>	CTC	GTGG	TGG G	GAA K	ACT L	GAG S	1440 221
1441 222	L CAA	CTG W	GGA E	ACC P	:AA? K	AGGI D	ATGA D	ATG( <b>A</b>	CTA' <b>M</b>	TGT S	CAG	AGC H	ACC(	GCA( R	GACA H	ATTI F	TCC P	CCA H	CTC	TCC P	1500 241
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1561	AC	AC'	TC:	ľGC'	TCG	AI	'TG	AGO		ATT	TC:	rg]	CAC	TGO	3CC	ACC	TAG	TGT	TCC	TGT	TCA	GČC	CGA	1620
262	H			A				R	T	_												P		281
1621 282	GC O	AG	CT: L	rgc. <b>A</b>	AAG S	TC A	CT	GG2 <b>G</b>	ATT F	CTA Y	TT. Y	AC(	STG <i>I</i>	GA: D	rcg R	CAA <b>N</b>	TGA D	TGA D	TGT <b>V</b>	CAA K	GTG C	CTT F	TTG C	301
1681	_						ľΤG	AG	ATG	TTG	GG.	AA(	CCT	'GGZ	AGA'	TGA	.ccc	CTG	GAT	'AGA	ACA	.CGC	CAA	1740
302	C	)	D	G	G 1	I	,	R	C	W	E	1	9	G	D	D	P	W	I	E	H	A	. <b>K</b>	321
1741 322	AT V		TT' F		AA( R					CTT L	'GA' I	TA	CGG R	AT( M	gaa K	GGG G	TCA Q	GGA E	igti F	TGT V	TGA D	TGA E	GAT I	1800 341
1801	•		_	_	λT	AT(	CCI	'CA'	TCT	TCI	TG	AG	2. CAG	CT	GTT	GTC	CAC	TTC	CAG	ACAC	CCC	:AGG	AGA	1860
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1861 362		AA	AA N	TGC A	TG.	AC(	CCI	'AC	AGA B	GAC	AG V	TG	GTO V	CA H	TTT F	TGG G	CCC P	TGC G	GAGA E	AAA( S	TTE S	GAA K	AGA D	1920 381
1921	_				_	•		_	_	_	_									GCT:	rca(	TAG	GAG	1980
382	1	I	V	M	M	i	S	T	P	V	V		K	A	A	L	E	M	G	F	S	R	S	401
1981	C(	CTC	GT	GAC	AC	AG	AC(	GT V	TCI	GC(	GGC O	AG	AT( I	CT L	GGC	CAC	CTG(	STG.	AGA N	ACTA Y	ACA(	GAC T	CGT V	2040 ≈421
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422	?	N	D	I	V	•	S	V	L	L	N 4	1 5	A	E	D	E	R	R	E	B	E	K	K	441
		AGZ R	ACA Q		CTG E		GA E	GAI M	GG( A	CAT	CAC	ĞΙ	GA D	CTT T.	TATO	AC'. L	rga' I	TTC R	GGA K	AGA N	ATA R	GAA! M	rggc <b>A</b>	2160 461
442			~	-		•				_					_			ATC	TTC	TTG	AGG	CCA	GTGT	2220
462		L		Q			L	T	H	V	I		P	Ï	L	D	N	L	L	B	A	S	V	481
				AA.	AAC	'AG	GA	AC	ATG:	ATA T	TT	ATI	'AG	ACA	GAI	AAA T	CAC	AGA T	TAC	CCT	TAC O	AAG( A	CAAG R	2280 501
483		I	_																		~		ACTO	
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246	1 /	\GA	ΑC	GAA	CT'	TG(	CAA	lAG'	TGT	GTA	TG	GA(	CAG	AG	AGG	TTI	CTA	TTO	TGI	TC	TTC	CGT	GTG(	3 2520 581
																								581 2 2580
252 58	1 :	CA H	TC L	TAC V	TA	GT( <b>V</b>	CTC	OD: Q	AGG E	raa:	GT	GC A	P	S.TT	L	I AA	lGGF	C (		)	[ (	. GCA	G	3 2580 601
258	1 (	GAC	'AA	TC	AG	GG	G <u>A</u> (	CTG	TGC	:GCZ	ACA	TT.	TCI	CŢ	CAŢ	GAG	TG	\AGI	AAT(	3GT(	CTG	AAA	TAT	T 2640 612
E l	רו	d)	т	1	7	a	T	v	1	, 1	ľ	K	L	S	*									U14

Fig. 6 (cont.)



2641	GTTGGACATCAGAAGCTGTCAGAACAAAGAATGAACTACTGATTTCAGCTCTTCAGCAGG	2700
2701	<b>ACATTCTACTCTTTTCAAGATTAGTAATCTTGCTTTATGAAGGGTAGCATTGTATATTT</b>	2760
2761	AAGCTTAGTCTGTTGCAAGGGAAGGTCTATGCTGTTGAGCTACAGGACTGTGTCTGTTCC	2820
2821	AGAGCAGGAGTTGGGATGCTTGCTGTATGTCCTTCAGGACTTCTTGGATTTGGAATTTGT	2880
2881	GAAAGCTTTGGATTCAGGTGATGTGGAGCTCAGAAATCCTGAAACCAGTGGCTCTGGTAC	2940
2941	TCAGTAGTTAGGGTACCCTGTGCTTCTTGGTGCTTTTCCTTTCTGGAAAATAAGGATTTT	3000
3001	TCTGCTACTGGTAAATATTTTCTGTTTGTGAGAAATATATTAAAGTGTTTCTTTTAAAGG	3000
	CGTGCATCATTGTAGTGTGTGCAGGGATGTATGCAGGCAAAACACTGTGTATATAATAAA	3120
2121	ΤΑΝΝΤΟΤΤΤΤΤΑΝΝΑΝΑΓΙΤΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝΑΝ	

Fig. 6 (cont.)

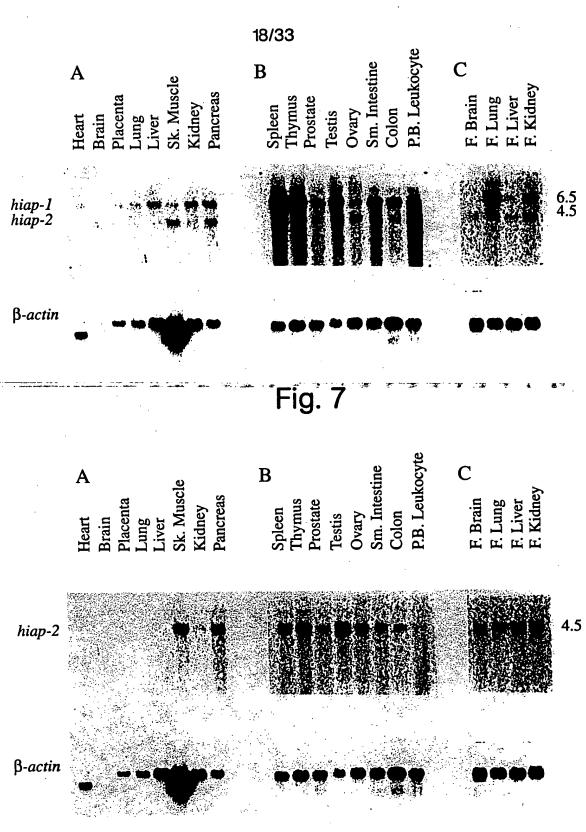


Fig. 8

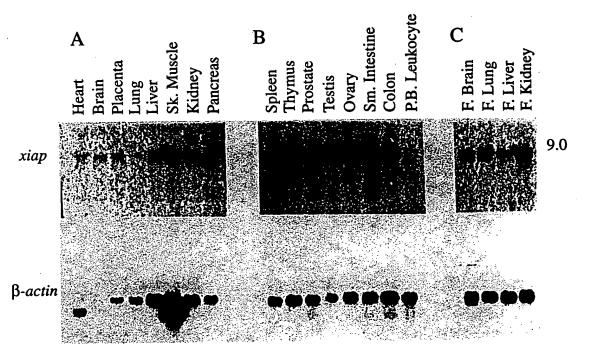
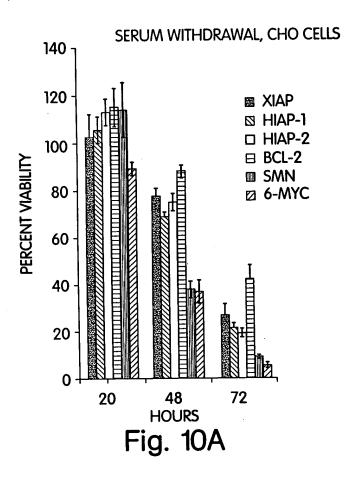


Fig. 9



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MENADIONE (20μΜ), CHO CELLS. 24hr SURVIVAL

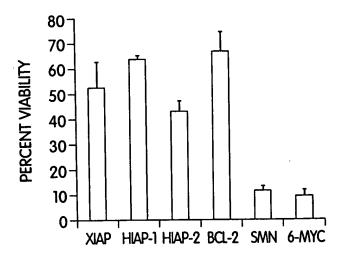
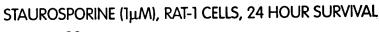


Fig. 10B



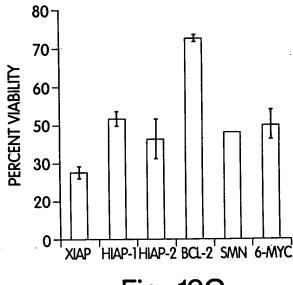


Fig. 10C

#### MENADIONE (10μM), RAT-1 CELLS, 18 HOUR SURVIVAL

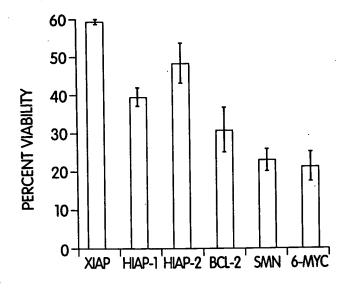


Fig. 10D



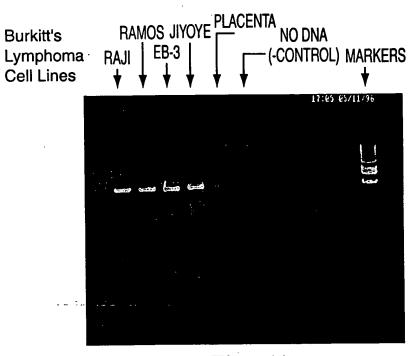


Fig. 11

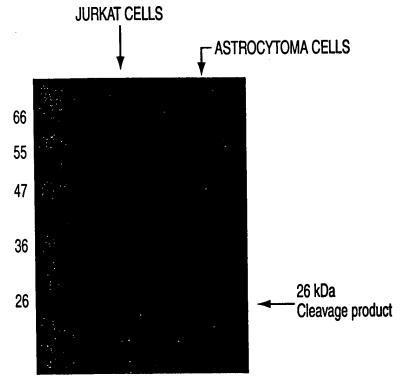
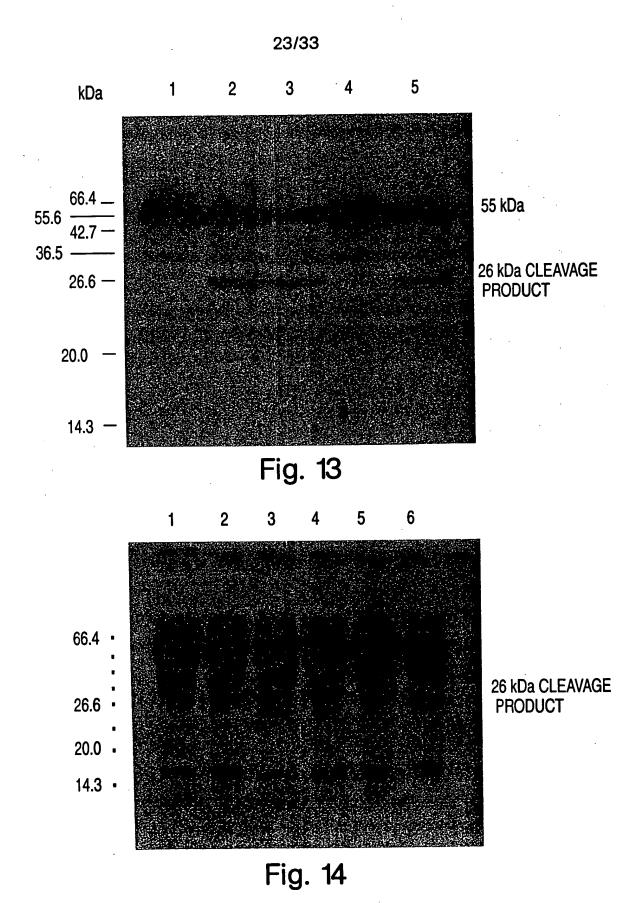
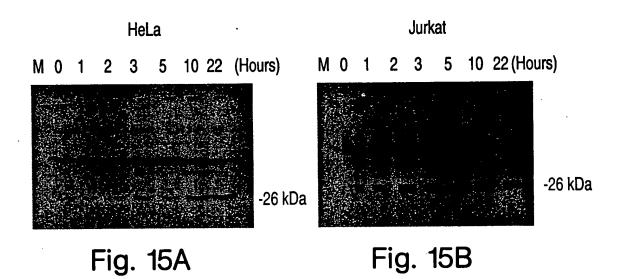


Fig. 12





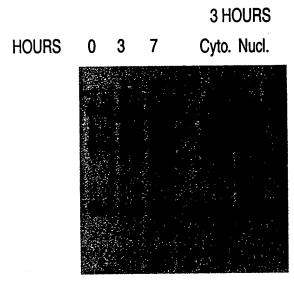


Fig. 16A

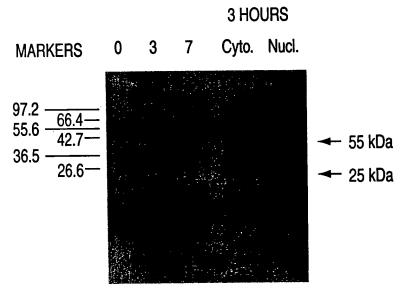


Fig. 16B

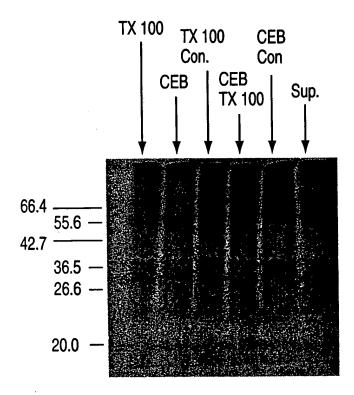


Fig. 17

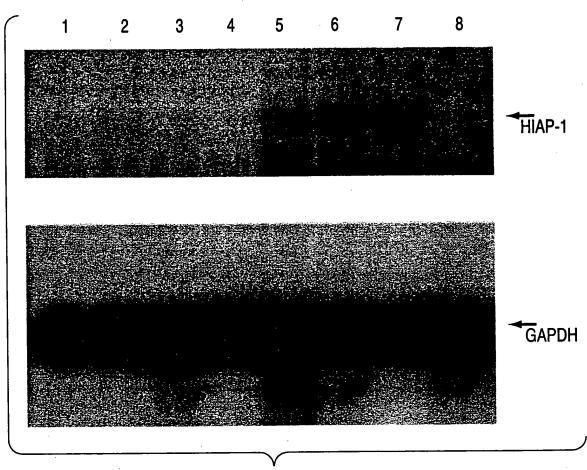
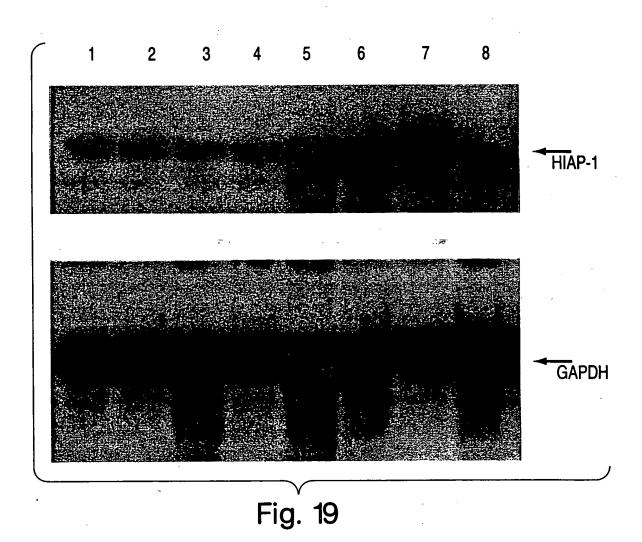


Fig. 18



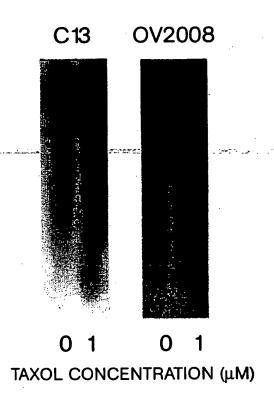


Fig. 20

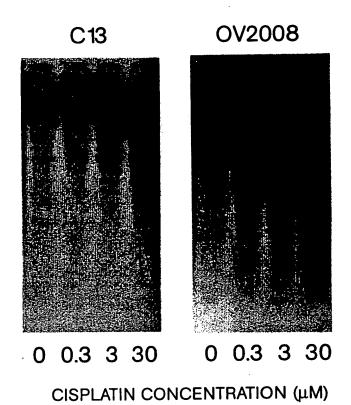
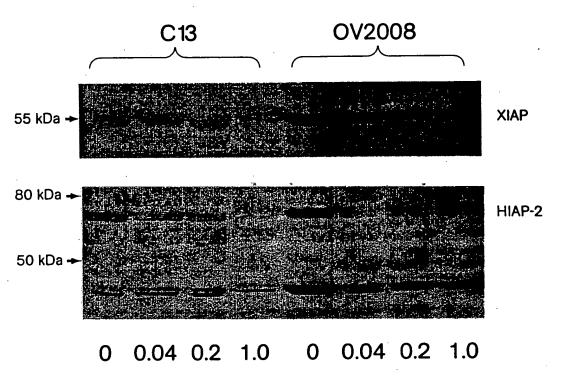
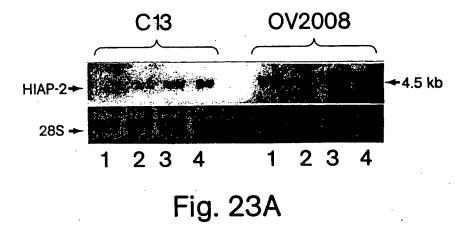


Fig. 21



TAXOL CONCENTRATION (μM)

Fig. 22



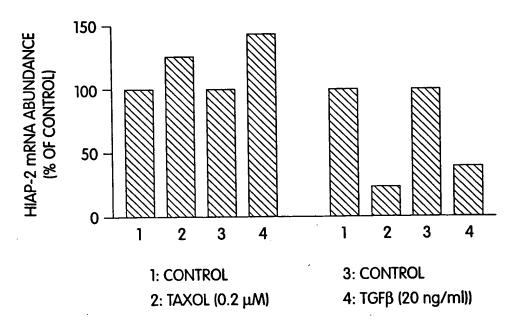


Fig. 23B

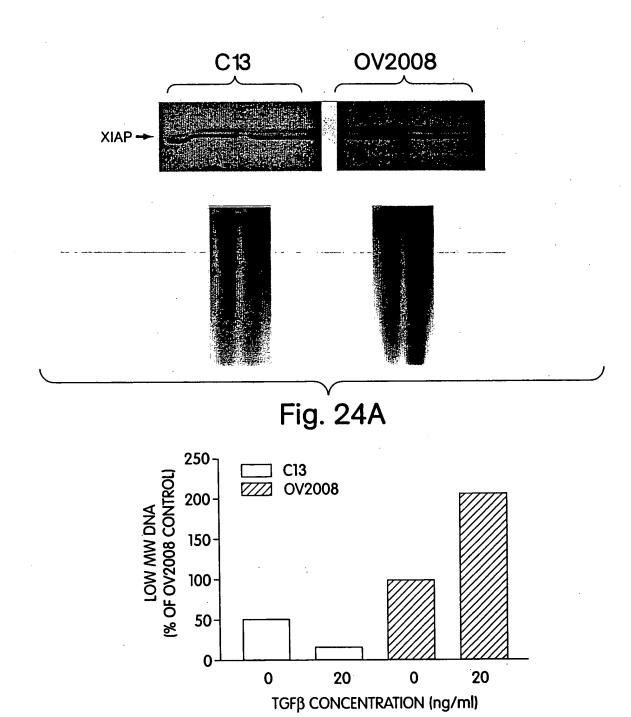


Fig. 24B